

Schlumberger



MAGIC/9000/C/AVT Terminal User's Manual

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NOTICE

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What Is the Add Value Terminal

Before using your Add Value Terminal, please take a few minutes to become familiar with the features and operating procedures.

The MagIC/9000/C/AVT Terminal consists of a Schlumberger MagIC™ 9000 POS terminal loaded with the AVT896 custom application. Together they are a standalone, password protected, card management terminal used to add monetary value to GPM896 compatible User's Cards.

In addition to the User's Cards, Set Group Code and M9K/MGT cards are required for configuration and to load monetary value into the terminal.

Note:



While the terminal has additional functions and may have other applications loaded, this manual addresses only the functions and operations related to the AVT896 application. Refer to the MagIC 9000 manual for information on how to plug in and turn on your terminal.

Configuring the Add Value Terminal Application

From the Application Manager idle display, press the SHIFT (MENU) key, then press the DOWN-ARROW key (hot key "APP").

```
MAIN MENU
MER SYS APP FCT
```

The Applications menu will be displayed.

```
+ APPLICATIONS
1 SOME APP
2 ADD VALUE 896
```

If applications are loaded in addition to AVT896, then use the arrow keys to select "Add Value 896" or press the associated number (2 in this example) then press the ENTER key. This activates the "Laundry Add Value" menu:

```
+LAUNDRY ADD VAL
1 STANDARD MODE
2 BATCH MODE
3 CONFIG MODE+
4 MANAGE MODE
```

Press the "Down Arrow" to display this line

Press the down arrow key twice or the 3 key, then press the ENTER key to select the Configure mode. When selected, the Configure mode requests a password. This must be the master password or higher. When a valid password is entered, Add Value Terminal displays the configuration mode menu:

- 1 CARD MAXIMUM set the card maximum value that is checked in standard mode — whole dollars 5 - 999; initially set to 99.
- 2 PRINT RECEIPT print receipt in standard mode — choices are Always, Prompt (ask), or Never; initially set to Never.
- 3 BATCH VALUE the card value to write to user cards in batch mode — whole dollars 1 - 999; initially set to 10.
- 4 INACTIVE TIME the time to wait for card insertion in either standard mode or batch mode — minutes 0 - 99; initially set to 1. Zero (0) implies no time-out, but in the MagIC 9000 that is limited to approximately 24 hours.
- 5 MACHINE ID the ID of the terminal written to user cards during value adjustment operations — a number 1 - 65535; initially set to 10001.

6 PASSWORDS selecting passwords displays the following menu:

- **1 SYSTEM** the highest level password (this choice is only displayed when the system password is entered to access the configuration menu). System password is five digits; initially set to "12345".
- **2 MASTER** the minimum required password for configuration and management modes in the AVT896 application. Master password is three to five digits; initially set to "12345".
- **3 USER** the lowest level password and the minimum password required for standard and batch modes. User password is zero to five digits; initially set to "12345".

NOTE:

even if zero digits are entered for the user password, the ENTER key must be pressed to validly end the input for any password input prompt for which the user password is valid.

When a password choice is selected, a prompt is displayed requesting entry of the new password for that level. When entered, a second prompt is displayed requesting reentry of the new password for confirmation. When the two entries are equal, the new password is set.

The CANCEL key may be pressed during the display for input of any parameter to return to the preceding menu and leave the parameter unchanged. Keyboard input times out after thirty seconds of no keyboard activity during the display for input of parameters and causes the same action as the CANCEL key.

Setting the Group Code(s)

Group codes are used to limit access to equipment at a particular location. Before the Add Value Terminal can be used, your group codes must be entered. The only way to enter your group codes is by the use of "Set Group Code" cards. Each of these cards has a Group Code and a Security Code stored in the card's memory.

To set the group codes, insert a "Set Group Code" card into the smart card reader slot. The terminal will prompt you to enter the security code. Use the keypad to enter the security code and then press the ENTER key. The display will momentarily show the group code then will prompt "REMOVE CARD". Additional group codes (up to a total of 32) may be entered at this time by simply inserting each additional "Set Group Code" card.

Note

To add a group code at a later time, you must first insert a "Set Group Code" card for a Group Code that is already loaded in the terminal.

Loading Monetary Value into the Add Value Terminal

'M9K/MGMT' cards are cards which contain funds which replenish the funds pool of the Add Value Terminal. An 'M9K/MGMT' card is encoded with a group code as well as monetary value. When one of these cards is inserted, it is validated and checked for a group code that has been loaded in the terminal. When all conditions are valid, all available funds are taken from the 'M9K/MGMT' card and added to the internal register of available funds. A receipt is generated with the card serial number, the amount before, the amount from the card added, and the final amount, in the internal register of available add value funds. The Add Value Terminal can only receive funds up to the maximum amount set during MANAGE MODE setup. (The factory default is \$1100.)

Note

The 'M9K/MGMT' card can only be used once before having to be recharged using Schlumberger's SERV software.

Encoding Value to User's Cards

Batch Mode

This is NOT an add value function.

All User Cards will be encoded to the same, predefined value. Value in excess of the predefined value will be transferred from a user's card to the terminal. If the user's card has a value less than the predefined value, then value is transferred from the terminal to the user's card. All cards processed in the Batch Mode have the same (predefined) value after processing.

From the Application Manager idle display, press the SHIFT (MENU) key, then press the DOWN-ARROW key (hot key "APP").

```
MAIN MENU
MER SYS APP FCT
```

The Applications menu will be displayed.

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If applications are loaded in addition to AVT896, then use the arrow keys to select "Add Value 896" or press the associated number (2 in this example) then press the ENTER key. This activates the "Laundry Add Value" menu:

```
+LAUNDRY ADD VAL
1 STANDARD MODE
2 BATCH MODE
3 CONFIG MODE+
4 MANAGE MODE
```

Press the down arrow key once or the 2 key, then press the ENTER key to select the Batch mode. When selected, the Batch mode requests a password. This must be the master password or higher. When a valid password is entered, Add Value Terminal displays the available balance (funds in the terminal) and the prompt:

```
BATCH MODE
$10.00
INSERT CARD
```

The value displayed is the value that you entered in the configure mode. Insert a User's card to add value to it.

```
PROCESSING
```

The terminal will display PROCESSING.

```
WRITING CARD
$10.00
```

Then it will display WRITING CARD and the predefined value.

```
REMOVE CARD
```

Remove the User's card and the terminal will return to the BATCH MODE prompt.

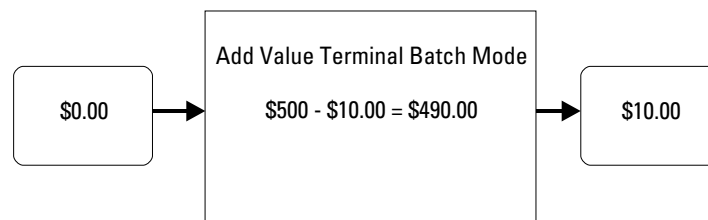
Note

No receipts are available in the Batch Mode

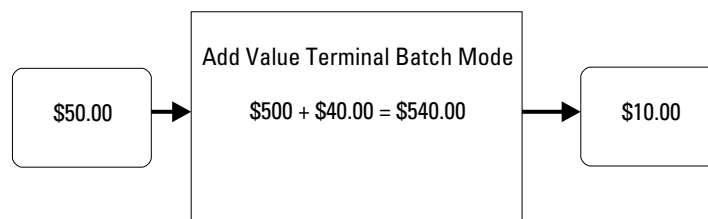
The Batch Mode is NOT an add value function.

All User Cards will be encoded to the same, predefined value. Value in excess of the predefined value will be transferred from a user's card to the terminal. If the user's card has a value less than the predefined value, then value is transferred from the terminal to the user's card. All cards processed in the Batch Mode have the same (predefined) value after processing.

Example 1 - A user's card with no value is processed in the batch mode. The Add Value Terminal starts with a balance of \$500. From that balance, \$10 is transferred to the user's card. The user's card now has a value of \$10 and the terminal has a balance of \$490.



Example 2 - A user's card with a \$50 value is processed in the batch mode. The Add Value Terminal starts with a balance of \$500. From the card balance, \$40 is transferred to the terminal. The user's card now has a value of \$10 and the terminal has a balance of \$540.



Standard Mode

From the Application Manager idle display, press the SHIFT (MENU) key, then press the DOWN-ARROW key (hot key "APP").

```
MAIN MENU
MER SYS APP FCT
```

The Applications menu will be displayed.

```
+ APPLICATIONS
1 SOME APP
2 ADD VALUE 896
```

If applications are loaded in addition to AVT896, then use the arrow keys to select "Add Value 896" or press the associated number (2 in this example) then press the ENTER key. This activates the "Laundry Add Value" menu:

```
+LAUNDRY ADD VAL
1 STANDARD MODE
2 BATCH MODE
3 CONFIG MODE+
```

Press the ENTER key to select the Standard mode. When selected, the Standard mode requests a password. When a valid password is entered, Add Value Terminal displays the available balance followed by the prompt:

```
TO ADD VALUE
INSERT CARD
```

```
BALANCE: $10.00
          AMOUNT
          0.00
```

Then the AVT896 application enters a loop first displaying a prompt to insert a card. (If standard mode was started by card insertion at the AM idle display, the AVT896 insert card prompt is displayed after this card has been processed and removed.)

When a card is inserted, it is checked for correct type of card (i.e. GPM896) and for a card type identifier that Add Value Terminal can process—these are 'set group code', 'M9K/MGMT', and 'user' card types.

'User' cards are validated, then checked for a group code that has been set. When all conditions are valid, processing proceeds according to the mode.

Standard mode displays the current balance of a user card and prompts for the amount to add to the card. When the ENTER key is used to confirm entry of an amount, the add value register is checked for sufficient funds to cover the amount. Then the new balance (current card balance plus entered amount) is checked against the configured card maximum amount. When all checks are confirmed, Add Value Terminal displays the message "Adding \$x.xx" (where x.xx is the entered amount) and the new value is written to the user card — the added amount is deducted from the add value register. If configured, a receipt is printed, or a prompt is displayed asking if a receipt should be printed. Finally, the new card balance is displayed with a prompt to remove the card. When the card is removed, the loop is restarted. If another card is to be processed at this time, when inserted, it will display its balance and the amount added to the previous card. If you want to change the amount to be added to the present card, press the CLEAR key to erase the previous amount. Then enter the desired amount and press the ENTER key.

To terminate standard mode, press the CANCEL key at the card insertion prompt. Or if no card insertion occurs during the configured time-out period, Add Value Terminal exits the mode.

At any time validation checks are not confirmed or any exceptions occur while writing a card, a message will be displayed. These messages are described later.

From the Application Manager idle display, press the SHIFT (MENU) key, then press the DOWN-ARROW key (hot key "APP").

```

MAIN MENU

MER SYS APP FCT

```

The Applications menu will be displayed.

```

+ APPLICATIONS
1 SOME APP
2 ADD VALUE 896

```

If applications are loaded in addition to AVT896, then use the arrow keys to select "Add Value 896" or press the associated number (2 in this example) then press the ENTER key. This activates the "Laundry Add Value" menu:

```

+LAUNDRY ADD VAL
1 STANDARD MODE
2 BATCH MODE
3 CONFIG MODE+
4 MANAGE MODE

```

Press the "Down Arrow" to display this line

Press the down arrow key three times or the 4 key, then press the ENTER key to select the Management mode. When selected, the Management mode requests a password. This must be the master password or higher. When a valid password is entered, Add Value Terminal displays the Management mode menu:

- 1 **PRINT TOTALS** Add Value Terminal accumulates card counts and amounts for a period, which starts with application initialization or with a clear period operation, and for the life of the application, and amounts by group codes. This menu selection prints these accumulations.
- 2 **CLEAR PERIOD** clears period totals - a new period starts after this action and covers up to the time of the print totals report.
- 3 **INIT TERMINAL** resets everything to zeros or defaults (this choice is only displayed when the system password is entered to access the management menu). This choice clears the group code list, period totals, life totals, the internal add value register (no more funds available to use to add value), and resets the configuration to the initial (default) settings.

Selections 2 and 3 display a confirmation screen requesting "yes" or "no" confirmation to proceed. If the CANCEL key or the "No" hot key is pressed, the action is aborted — no clearing occurs.

Selection 2 checks if the totals have been printed since any add value operations before display of the confirmation screen. If totals have not been printed, a message is displayed and the program returns to the menu display.

Messages

Even though the display size is limited, most messages have been constructed such that they are meaningful at the time they are displayed and do not require explanation. Messages that may require explanation are those that deal with card processing which are:

BAD CARD TYPE

displayed for unrecognized card possibilities. This could mean that the card is not a GPM896 card or it is not one of the specific GPM896 card types that are described in standard mode or the system just could not read the card.

BAD CARD

displayed for any number of card data validation check failures. This is also displayed for card write exceptions — if the program cannot write the new values. This message is also displayed for normal exceptions when using 'set group code' cards.

Sometimes the program displays a four-digit hexadecimal status on the line below one of these messages, for about a second, then the status display is replaced with the "Remove Card" message. If a particular exception is frequent or persistent, the status may be recorded for requesting additional information.

BAD GROUP CODE

displayed when the card group code is not found in the group code list created with 'set group code' cards. This applies to 'user' cards and 'M9K/MGMT' cards.

INVALID CARD

displayed when the card is recognized and read, and the information that is read indicates that another system has invalidated the card for reasons beyond our knowledge.

HISTORY CORRUPT

displayed when an 'user' card has been updated (value was added), but an error occurred while writing the card's history log. This is an informational display only — the card has a valid new value.

INSUFFICIENT FUNDS

displayed when the internal add value register does not have enough funds to cover the amount to be added to an 'user' card. The amount available can be determined by exiting and then restarting the particular operation mode.

VALUE TOO HIGH

displayed when an 'M9K/MGMT' card has been inserted and the amount from the 'M9K/MGMT' card added to the current add value register would cause the add value register to exceed \$1100.00.

ENTER SEC CODE

displayed when a 'set group code' card has been inserted and it is the first 'set group code' card seen by the program after other card types have been processed or after a 'set group code' card had been denied with a "Bad Card" message. The security code requested here is the security code of the 'set group code' card.

BAD SEC CODE

displayed when an "Enter Sec Code" message has been displayed and the entered code does not match the code on the 'set group code' card.

CARD EXPIRED

displayed when a 'set group code' card is inserted and the expiration date of the card indicates it has expired.

GROUP CODES FULL

displayed when a 'set group code' card is inserted and the group code list is full (contains the maximum number of group codes — thirty-two).

When a card is inserted at the AM idle display, certain conditions on the card may cause one of these messages:

NO RESPONSE

displayed because no valid data could be read from the card.

CHECK ORIENTAT'N

As indicated, check that the card is inserted with the IC oriented properly (for MagIC 9000, the orientation of the IC is down and left - inserted into the terminal, facing the terminal display).

UNINITIALIZED

displayed when the information read from the card indicates that the card has not been personalized - the card is not valid for add value operations.

Set Group Code

This is the Add Value Terminal sequence checking of 'set group code' cards. There are two situations:

- 1 No group codes are set in the terminal (such as after application initialization). The first valid 'set group code' card will cause the program to prompt for the card security code. If that is validly entered, that card's group code is set in the terminal and each succeeding consecutive valid 'set group code' card that is inserted will have its respective group code set in the terminal (appended to the group code list) up to a maximum of thirty-two group codes.

- 2 Some group codes have been set in the terminal and the group code list is not full and other processing has occurred since the last of those group codes was set. The first valid 'set group code' card must belong to one of the group codes already set and will cause the program to prompt for the card security code. Each succeeding consecutive valid 'set group code' card that is inserted will have its respective group code set in the terminal (appended to the group code list) up to a maximum of thirty-two group codes.